

PATENT ABSTRACTS OF JAPAN

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(57)Abstract:

PURPOSE: To bring currents fed to the electromagnets of all magnets for levitation to approximately zero by installing at least one of a plurality of the magnets for levitation to a carrier truck so as to be able to adjust gaps among the magnets for levitation and rails.

CONSTITUTION: Magnets for levitation consisting of permanent magnets 13 and electromagnets 14 are mounted on carrier trucks by a mounting means respectively. Gap sensors are set up onto the permanent magnets 13 of each magnet for levitation. A controller 71 receives signals from the gap sensors 16d and carrier control signals, and computes currents (i) fed to the magnets 15d for levitation. The controller 71 receives currents (i) supplied to the magnets 15d for levitation and the signal L of a position sensing means 72 sensing the positions of the magnets 15d for levitation, computes the movement ΔL of the magnets 15d for levitation, drives a piezo-actuator 70p through a driver circuit 73, and moves the magnets 15d for levitation.

